

(No Model.)

S. B. HART.
GRAIN SPOUT.

No. 435,968.

Patented Sept. 9, 1890.

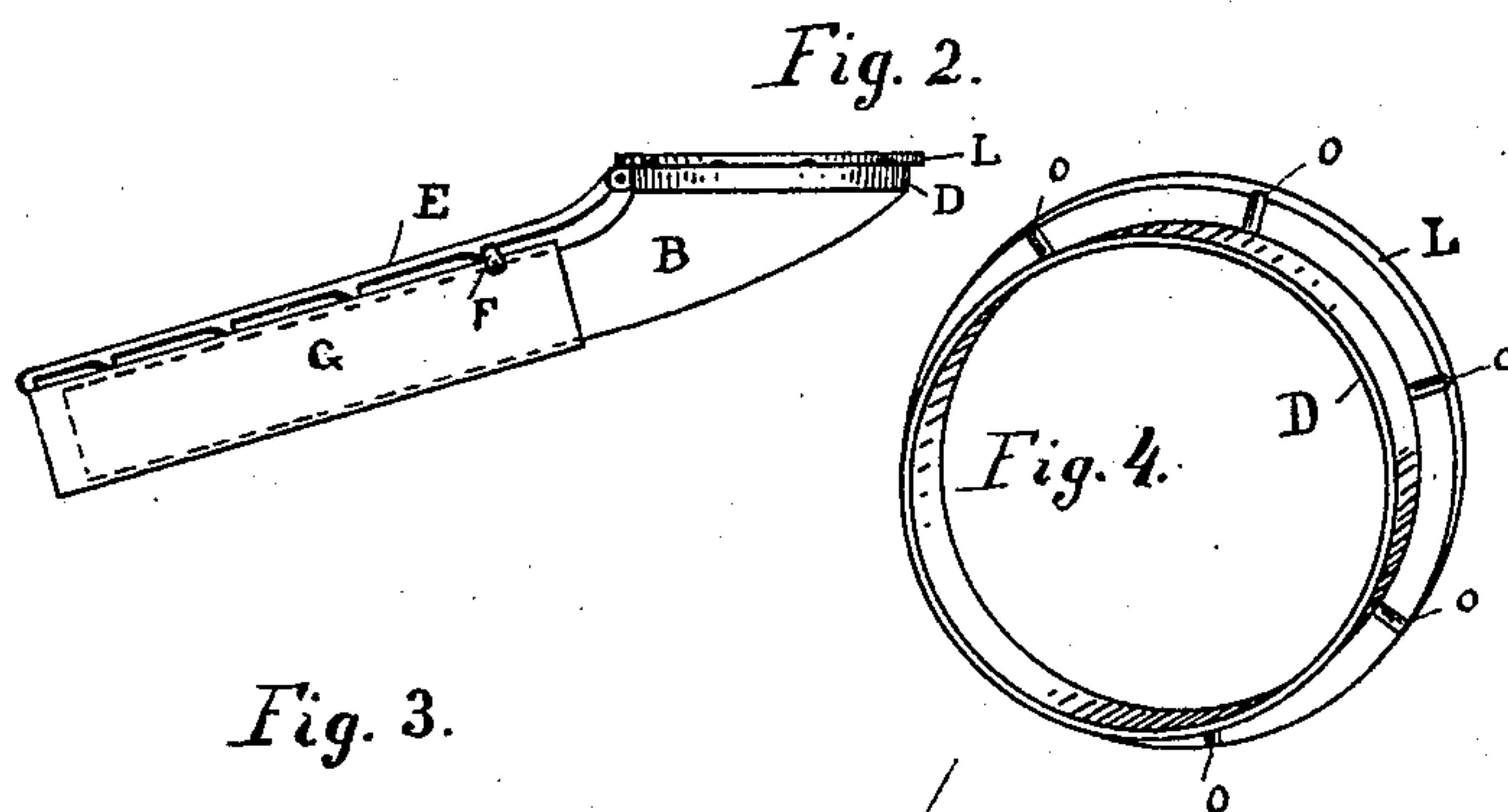
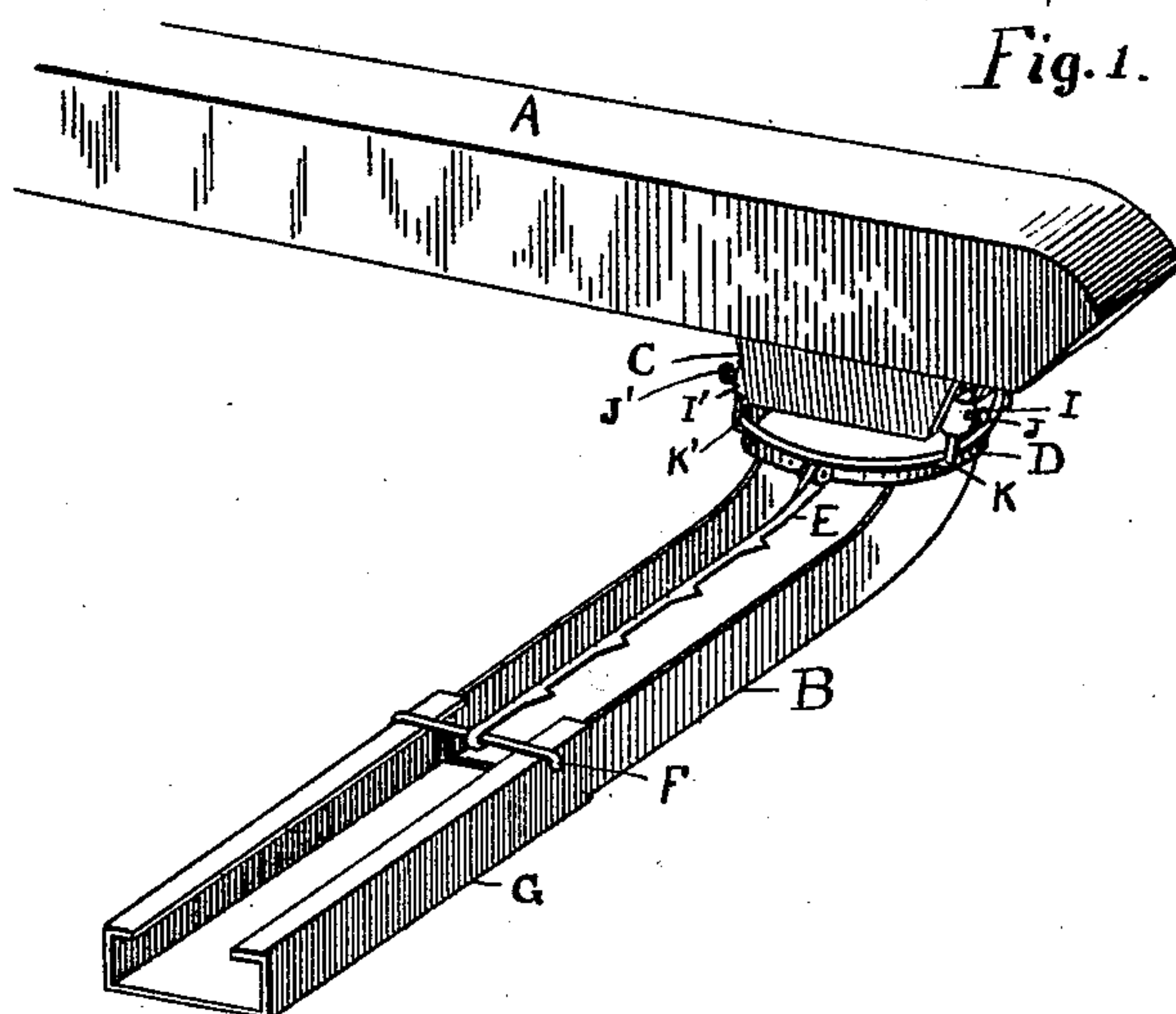
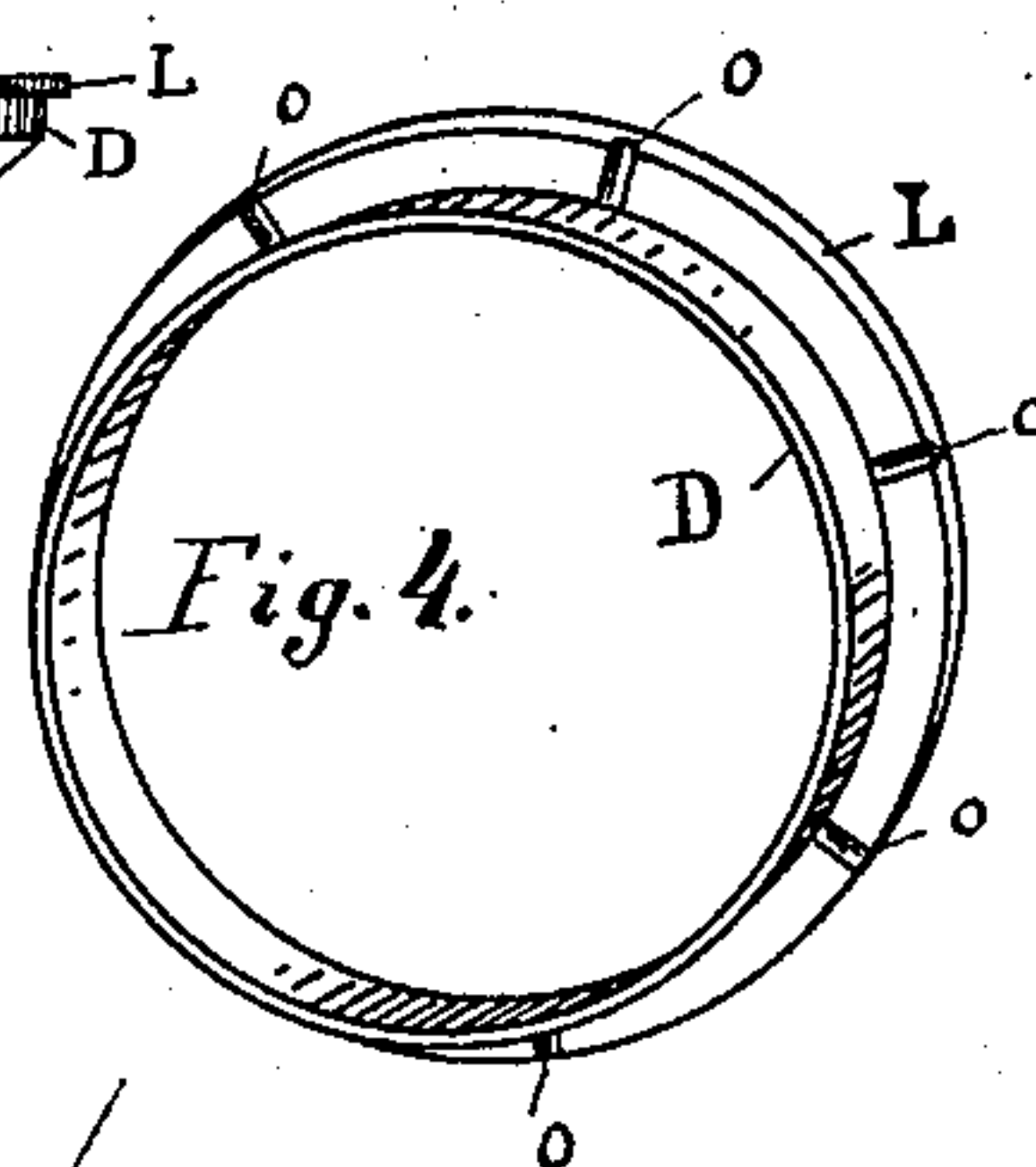
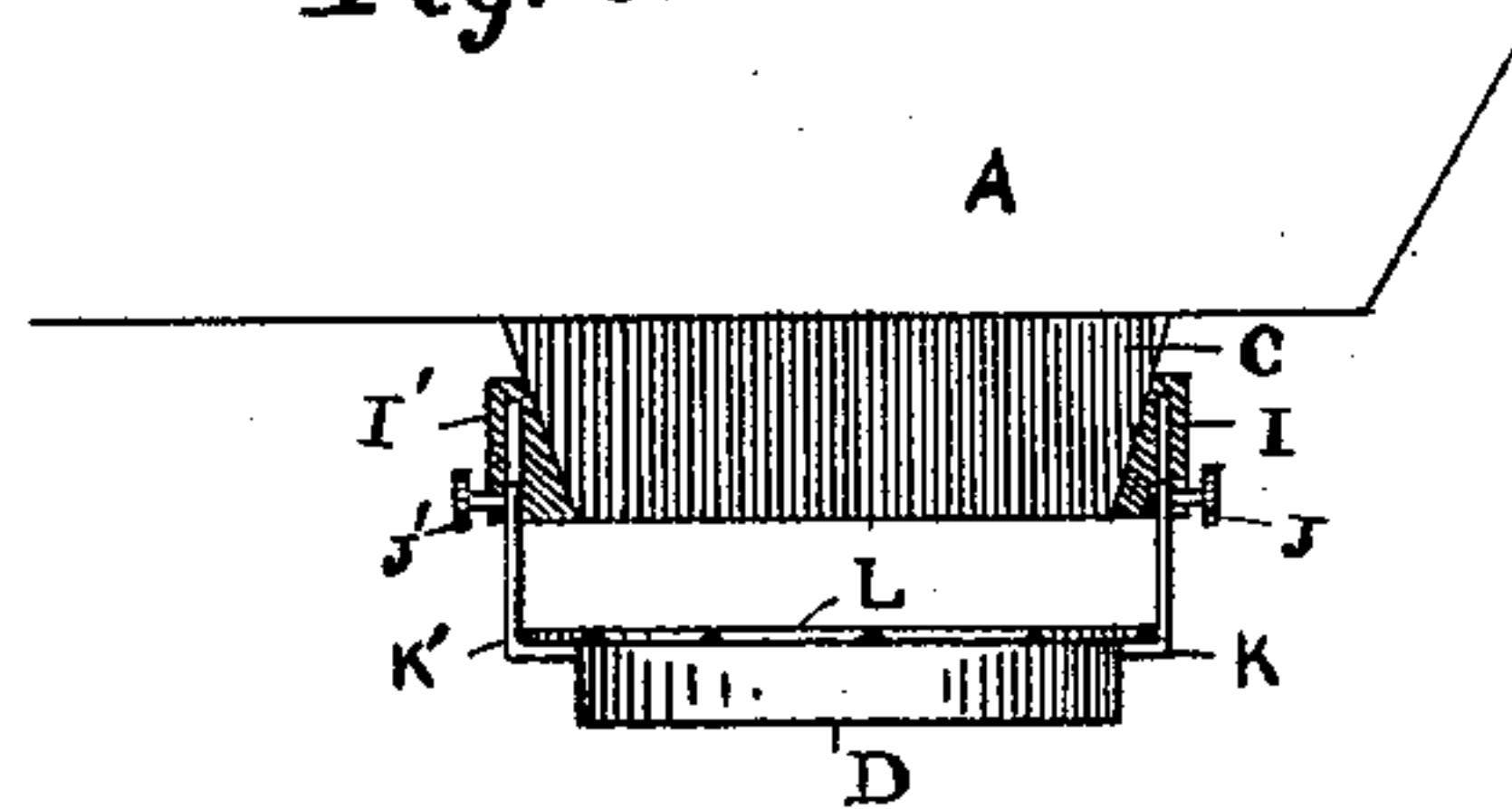


Fig. 3.



Witnesses-
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UNITED STATES PATENT OFFICE.

STACY B. HART, OF PEORIA, ILLINOIS.

GRAIN-SPOUT.

SPECIFICATION forming part of Letters Patent No. 435,968, dated September 9, 1890.

Application filed January 16, 1890. Serial No. 337,128. (No model.)

To all whom it may concern:

Be it known that I, STACY B. HART, a citizen of the United States, residing at Peoria, in the county of Peoria and State of Illinois, have invented certain new and useful Improvements in Grain-Spouts; and I do hereby declare that the following is a full, clear, and exact description of the invention, which will enable others skilled in the art to which it appertains to make and use the same.

My invention relates to certain new and useful improvements in which a spout is provided which is readily adjustable and so constructed that it may be telescoped or extended to accommodate itself to different distances to which it is desired that grain may be carried.

That my invention may be more fully understood, reference is had to the accompanying drawings, in which—

Figure 1 is a perspective view of my improvement attached to a conveyer. Fig. 2 is a plain side view showing the sections of the spout telescoped together. Fig. 3 shows the mode of attachment to a depending chute from the conveyer. Fig. 4 shows the rim with grooved flange, which carries the spout.

This invention is in the line of grain-spouts which are adapted to turn from side to side in order to convey grain into different receptacles. In former inventions of this class it has been customary to use a plain spout in one section without any means for raising or lowering the same.

My invention relates especially to an improved mechanism for lengthening or shortening the grain-spout and holding it firmly at the desired extension and also for supporting the grain-spout, and means for raising and lowering the same and securing it in any position or angle in which it may be shifted.

A refers to the conveyer, and C to a depending chute.

I I' refer to swiveled blocks with set-screws J J'.

K K' are supporting-hooks, which are secured in the swivel-blocks I I' by means of the set-screws J J'.

D refers to the rim which carries the flange L, having grooves O, which rim is carried upon the supporting-hooks K K'.

B is a section of the spout which is attached to the rim D.

G is a section of the spout, which acts as a sleeve and telescopes with the section B.

E is a serrated bar acting as a ratchet on the cross-bar F.

In operation the grain, descending from the conveyer A into the chute C, is received in the spout and conducted to points desired. It will be seen that the spout is easily lengthened or shortened by telescoping or extending the sections B and G to accommodate it to the different distances it is desired the grain should be conducted. After having been adjusted to the desired length it will be seen that it is held firmly in such a position by means of the teeth on the serrated bar E. The said serrated bar E is pivotally attached to the rim D. It will further be seen that the spout may be raised or lowered by means of the depending hooks K K', which are raised or lowered in the swiveled blocks I I'. It will also be seen that it may be shifted from side to side, having its bearing upon the depending hooks K K', and by means of the grooves or depressions O in the flange L, which form receptacles for the hooks K K', it is securely held in the position desired.

The particular advantage of my improvement is that it provides a spout that may be lengthened or shortened to accommodate itself to different distances, and, further, that it may be raised or lowered. It is well known that in loading grain into wagons from a thrasher it is sometimes necessary to stop the thrasher in order to get the wagons into position for receiving the grain. Now this difficulty is obviated by means of my improved spout, which, being readily adjustable, having filled one wagon, may by means of the rotary shift and telescope extension accommodate itself to conduct grain to another wagon at another angle and at a farther distance than the one previously loaded. It is known that the spouts are sometimes in the way of the wagons which are being backed up into position. Now my improved spout may be raised so as to be entirely removed and out of the way.

The form and construction of my improved spout may be varied to suit the use to which it is desired to be put. Any number of sections telescoped in manner described may be used.

While sheet metal is the material preferred in the construction, yet any suitable material may be used in the construction of the sections referred to.

5 Thus having described my invention so that others may make and use the same, what I desire to secure by Letters Patent is--

1. In combination with a conveyer, a grain-spout having the sections B and G, the rim
10 D, which has the grooved flange L, the depending chute C, the swiveled blocks II', the supporting-hooks K K', the set-screws J J', and the serrated bar E, pivotally attached to the rim D, substantially as described and set
15 forth.

2. In a grain-spout, the depending chute C, the swiveled blocks I I', the hooks K K', the set-screws J J', the flanged rim D, containing the grooves O in the flange L, the telescoping section B, the surrounding section G, the serrated bar-lever E, and the cross-bar F, all combined and operating in the manner and for the uses hereinbefore set forth. 20

In testimony whereof I affix my signature in presence of two witnesses.

STACY B. HART.

Witnesses:

D. S. LEE,

W. V. TEFFT.